



22764 U.S. PTO  
031904

**Attorney Docket No: S-6490**

**PATENT**

**Mail Stop Patent Application  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450**

19270 U.S. PTO  
10/804232



**UTILITY PATENT APPLICATION TRANSMITTAL**

Transmitted herewith for filing is a U.S. Non-Provisional Utility Patent Application  
entitled: HEAT EXCHANGER SYSTEM FOR COOLING OPTICAL FIBERS

naming as inventors:

Ovidiu Marin  
Lisle, IL

Frederick W. Giacobbe  
Naperville, IL

M. Usman Ghani  
Bolingbrook, IL

and including:

- ☒ Fifteen (15) pages of description (before the claims);
- ☒ Five (5) pages of claims ((28) total claims; (2) independent claims);
- ☒ One (1) Sheet of Abstract;
- ☒ Five (5) sheets of drawings including Figures 1-5.

1. Also enclosed are:

- ☐ executed Declaration
- ☐ Application Data Sheet
- ☐ Assignment and Assignment Recordation Cover Sheet
- ☐ Power to Prosecute
- ☒ Information Disclosure Statement and Form PTO/SB/08A
- ☐ Copies of ( ) Foreign Patent Documents
- ☐ Preliminary Amendment
- ☐ CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)
- ☐ Nucleotide and/or Amino Acid Sequence Submission

- ☐ Computer Readable Form (CRF) on 3 ½" floppy disk
- ☐ Specification Sequence Listing on:
  - ☐ CD-ROM or CD-R (2 copies); or
  - ☐ paper
- ☐ The content of the copy in computer readable form is identical to the content of the paper, CD-ROM, or CD-R copy of the Sequence Listing.
- ☐ Nonpublication Request and Certification
- ☐ Check No. \_\_\_\_\_ in the amount of \$\_\_\_\_\_ for the total fee as calculated below
- ☒ Return receipt postcard

2. ☐ Please amend the specification by inserting before the first heading the following paragraph:

This application claims priority under 35 U.S.C. §§119 and/or 365 to \_\_\_\_\_ filed in \_\_\_\_\_ on \_\_\_\_\_, the entire content of which is hereby incorporated by reference.

A certified copy of the priority application ☐ is enclosed ☐ will follow.

3. ☐ Please amend the specification by inserting before the first heading the following paragraph:

This application claims priority under 35 U.S.C. §119(e) to U.S. Provisional Application No. \_\_\_\_\_, filed \_\_\_\_\_, the entire content of which is hereby incorporated by reference.

4. ☐ Please amend the specification by inserting before the first heading the following paragraph:

This application claims priority under 35 U.S.C. §120 to U.S. Patent Application No. \_\_\_\_\_, filed \_\_\_\_\_, the entire content of which is hereby incorporated by reference.

5. The filing fee has been calculated as follows ☐ and in accordance with the enclosed preliminary amendment:

	NO. OF CLAIMS		EXTRA CLAIMS	RATE	FEE
Basic Application Fee					\$770.00
Total Claims	28	- 20 =	8	x \$18.00	144.00
Independent Claims	2	- 3 =		x \$86.00	.00
If multiple dependent claims are presented, add \$280.00					00.00
Total Application Fee					914.00
<input type="checkbox"/> Applicant claims Small Entity Status (subtract 50% of Total Application Fee)					
Other fees: (specify) – Surcharge – Late filing of Declaration					130.00
<b>TOTAL FEE DUE</b>					<b>\$1,044.00</b>

- ☒ This application is being filed without a filing fee. Issuance of a Notice to File Missing Parts of Application is respectfully requested.
- ☐ A check for the total fee is attached.
- ☐ Please charge \$\_\_\_\_\_ to Deposit Account No. \_\_\_\_\_ for the total fee. This paper is being submitted in duplicate.
- ☐ The Commissioner is hereby authorized to charge any additional appropriate fees under 37 C.F.R. §§1.16, 1.17, and 1.21 that may be required by this paper, and to credit any overpayment, to Deposit Account No.

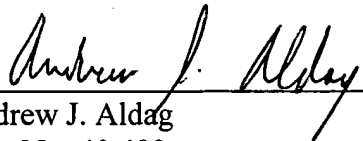
6. Please direct all correspondence concerning this application to:

**LINDA K. RUSSELL  
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HOUSTON, TEXAS 77070**

Dated: March 19, 2004

Respectfully submitted by  
**EDELL, SHAPIRO & FINNAN, LLC**

By:

  
\_\_\_\_\_  
Andrew J. Aldag  
Reg. No. 40,483